

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1027968

Luminaire Tested: S125DIP-B375D850UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027968
REPORT IS A COMBINATION OF REPORTS P1002117 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D850UB50-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

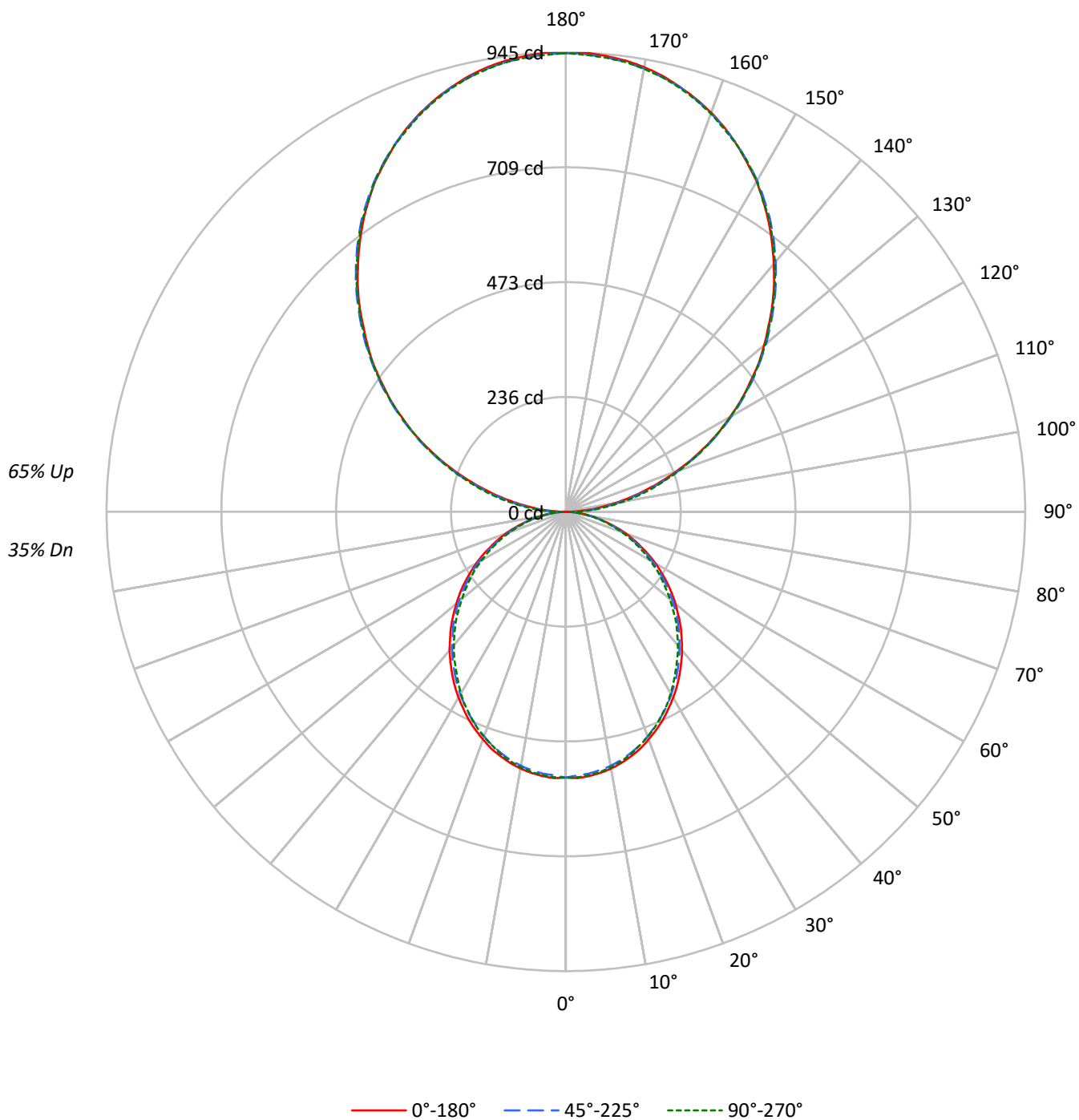
Lumens per Lamp: N/A
Luminaire Lumens: 4058.0 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42
1	94	90	86	83	85	82	78	75	66	63	61	51	49	48	37	37	36
2	86	79	73	68	77	71	66	62	57	54	51	45	42	40	33	31	30
3	78	69	62	56	70	63	57	52	51	46	43	39	36	34	29	27	26
4	72	61	53	47	64	55	49	44	45	40	36	35	32	29	26	24	22
5	66	54	46	40	59	49	42	37	40	35	31	31	28	25	23	21	19
6	60	49	41	35	54	44	37	32	36	31	27	28	25	22	21	19	17
7	56	44	36	31	50	40	33	28	33	27	24	26	22	19	19	17	15
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3503	3503	3503
5°	3503	3422	3428
10°	3474	3343	3333
15°	3428	3249	3221
20°	3367	3141	3091
25°	3300	3022	2953
30°	3221	2898	2808
35°	3136	2769	2645
40°	3047	2632	2500
45°	2952	2498	2346
50°	2847	2346	2166
55°	2743	2180	2001
60°	2619	2004	1809
65°	2471	1800	1611
70°	2321	1566	1382
75°	2067	1289	1117
80°	1761	962	821
85°	1361	569	452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2952 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	1.3
10°-20°	145.7	3.6
20°-30°	215.1	5.3
30°-40°	251.0	6.2
40°-50°	252.1	6.2
50°-60°	221.3	5.5
60°-70°	164.8	4.1
70°-80°	94.1	2.3
80°-90°	28.6	0.7
90°-100°	62.7	1.5
100°-110°	186.4	4.6
110°-120°	316.1	7.8
120°-130°	416.2	10.3
130°-140°	466.4	11.5
140°-150°	457.1	11.3
150°-160°	384.0	9.5
160°-170°	255.2	6.3
170°-180°	89.3	2.2
0°-30°	412.5	10.2
0°-40°	663.5	16.3
0°-60°	1136.8	28.0
0°-90°	1424.4	35.1
90°-120°	565.3	13.9
90°-150°	1905.0	46.9
90°-180°	2634.0	64.9
0°-180°	4058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	546	545	541	545	544	52
15°	520	519	514	516	516	147
25°	472	470	464	465	464	217
35°	408	406	400	398	394	255
45°	334	332	327	322	320	257
55°	254	253	247	243	240	227
65°	172	171	166	162	160	170
75°	91	90	88	87	85	97
85°	24	24	24	24	23	26
90°	1	7	12	15	18	5
95°	48	49	56	62	63	50
105°	167	171	176	180	182	179
115°	316	319	321	320	319	313
125°	462	466	467	466	465	414
135°	601	605	606	606	603	463
145°	728	731	733	733	731	455
155°	833	833	834	836	833	384
165°	905	904	905	908	903	255
175°	941	938	938	943	938	89
180°	944	944	944	944	944	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	546.7	546.7	546.7	546.7	546.7
2.5°	548.5	547.2	542.8	547.2	546.7
5°	545.9	545.0	540.7	544.6	544.1
7.5°	542.0	541.1	536.3	540.2	539.8
10°	536.3	535.5	530.7	534.2	533.8
12.5°	529.4	527.7	523.4	526.0	526.0
15°	520.3	519.0	514.3	516.5	516.5
17.5°	510.8	508.7	503.9	506.5	504.3
20°	498.3	497.4	491.8	494.8	492.7
22.5°	485.7	484.0	478.8	480.6	479.3
25°	472.3	470.2	464.5	465.4	464.1
27.5°	456.8	455.5	449.8	450.3	449.0
30°	441.6	440.3	433.8	433.0	431.7
32.5°	425.2	423.0	417.4	415.7	413.1
35°	407.9	406.2	400.1	397.9	394.5
37.5°	390.1	388.0	382.4	379.3	377.2
40°	372.0	369.8	363.8	359.9	358.6
42.5°	352.5	350.8	344.7	341.3	339.1
45°	333.9	332.2	327.0	321.8	320.5
47.5°	313.6	314.0	307.5	302.3	299.3
50°	294.1	292.8	287.6	282.0	279.0
52.5°	274.2	273.4	267.7	263.0	259.5
55°	254.3	253.0	247.0	243.1	240.1
57.5°	233.1	232.7	227.5	222.3	221.0
60°	213.2	211.5	206.8	202.4	199.4
62.5°	192.5	191.2	187.3	182.5	180.4
65°	171.7	170.9	166.1	162.2	160.5
67.5°	151.4	149.7	146.2	142.7	141.9
70°	132.4	130.2	126.3	123.7	122.0
72.5°	111.6	110.3	108.1	105.1	103.4
75°	91.3	90.4	88.2	86.9	85.2
77.5°	72.2	71.8	70.5	69.6	68.3
80°	54.5	54.5	53.6	53.2	52.3
82.5°	38.9	38.1	38.1	37.2	37.2
85°	23.8	24.2	24.2	23.8	22.9
87.5°	11.7	11.7	11.2	11.2	10.4
90°	0.7	6.6	11.7	15.4	17.6
92.5°	22.0	25.7	32.3	37.5	38.9
95°	47.7	49.2	56.5	61.7	63.2
97.5°	73.4	74.2	84.4	88.9	89.6
100°	102.8	102.8	112.4	119.0	120.4
102.5°	134.4	138.1	141.7	149.1	151.3
105°	167.4	171.1	175.5	179.9	182.1
107.5°	203.4	207.1	210.8	213.0	213.0
110°	240.9	244.5	246.7	248.9	248.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	279.0	280.5	283.4	284.2	282.7
115°	316.5	319.4	320.9	320.2	319.4
117.5°	354.7	355.4	356.9	357.6	354.7
120°	389.9	393.6	394.3	394.3	391.4
122.5°	428.1	428.8	431.0	430.3	428.1
125°	461.9	466.3	467.0	465.6	464.8
127.5°	499.3	501.5	502.3	501.5	500.1
130°	532.4	536.1	537.5	536.8	535.3
132.5°	565.4	572.0	571.3	570.6	568.4
135°	600.7	605.1	605.8	605.8	602.9
137.5°	633.7	638.1	639.6	640.3	636.7
140°	665.3	669.0	671.2	672.6	669.0
142.5°	696.9	699.8	702.7	703.5	699.8
145°	727.7	730.7	732.9	732.9	730.7
147.5°	756.4	758.6	760.0	762.2	756.4
150°	785.0	784.3	787.2	787.2	785.7
152.5°	808.5	810.0	810.7	812.9	810.0
155°	832.7	832.7	833.5	836.4	832.7
157.5°	854.8	853.3	854.0	857.0	851.8
160°	873.8	871.6	872.4	875.3	871.6
162.5°	890.7	889.3	889.3	892.9	888.5
165°	905.4	904.0	904.7	907.6	903.2
167.5°	918.6	915.7	915.7	920.1	915.7
170°	928.9	926.0	926.0	930.4	925.2
172.5°	936.3	933.3	933.3	937.7	933.3
175°	941.4	938.5	938.5	942.9	937.7
177.5°	945.1	942.1	941.4	945.8	940.7
180°	943.6	943.6	943.6	943.6	943.6

(END OF REPORT)